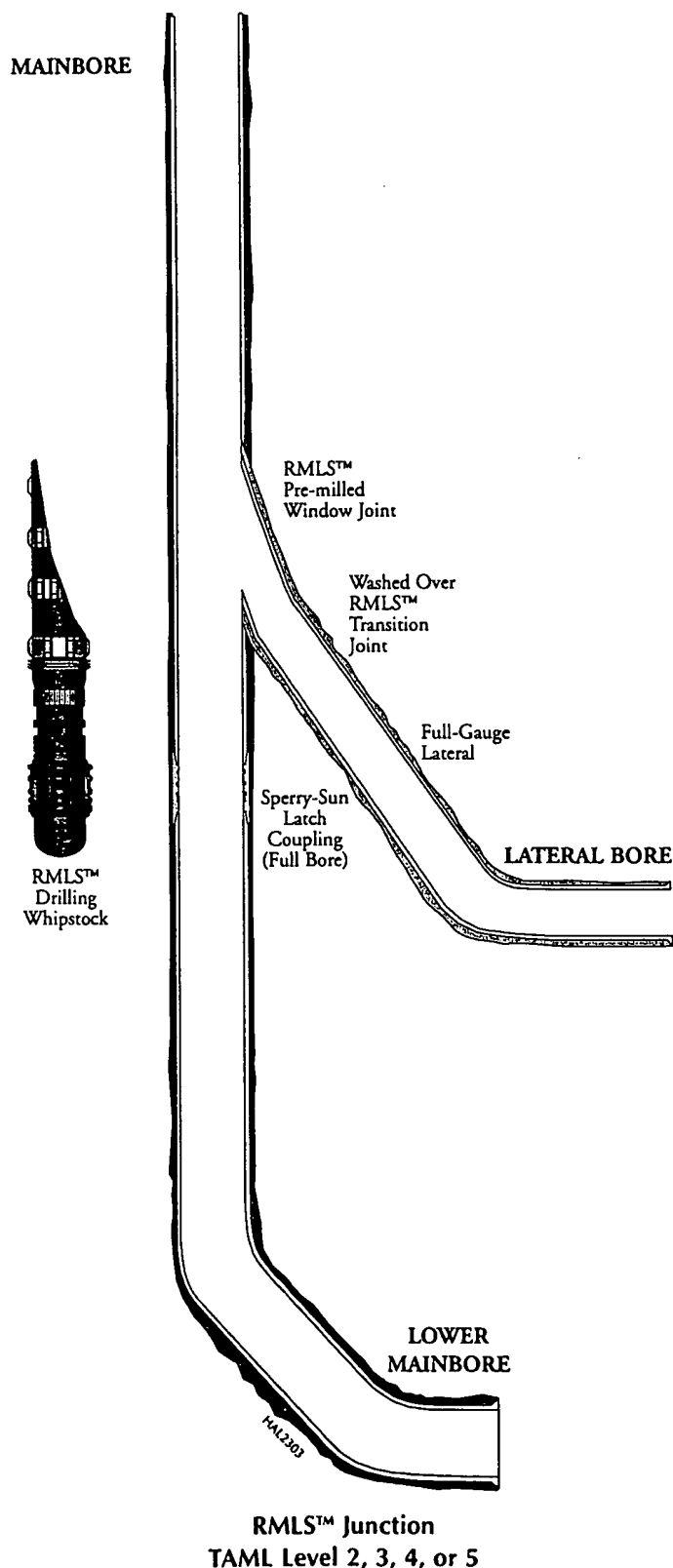


Multilateral Services *Profile*

RMLS™ Retrievable Multilateral System LatchMaster™ Pre-milled Window Systems



Application

The RMLS™ system is designed to create a level 4 junction for multilateral wells that require full-gauge access to the lateral bore and hydraulic pressure integrity at the junction using cement. The cemented junction creates an effective barrier to sand production. The RMLS™ system may also be used to create level 2 systems that have an open lateral bore or use a drop liner. If a strong mechanical integrity at the junction is required with full-gauge lateral access, then a pre-milled lateral liner can be hung in the mainbore to create a level 3 junction. The RMLS™ system is designed for use in new wells drilled from land or offshore locations with a wide range of potential applications. Primary uses are to maximize production per wellhead location by increasing reservoir exposure and to isolate the junction from sand production. Other applications include in-fill development, slot-constrained platforms, access to discrete zones or blocks with large reserves and high production rates (25,000 BPD), and areas where environmental considerations require minimum wellhead sites.

Features

- Pre-milled RMLS™ window joint with orienting latch coupling
- Milling-free system for maximum debris control
- Full-bore access to completed mainbore
- Full-bore access to completed lateral
- Precise depth and azimuth control using latch coupling

Benefits

- Applicable to new wells
- Can be completed as level 2, 3, 4, or 5 junction
- Can be developed bottom up or top down as required
- Mechanical and hydraulic integrity of level 4 junction with cement
- Minimal milling or washover required to re-open the mainbore
- Full drift ID through completed mainbore and lateral
- Permanent downhole latch coupling reference for depth and orientation control
- Compatible with WREAL™ wireline re-entry alignment whipstock conveyed on wireline or coiled tubing
- Junction can be completed with a through-tubing LRS™ lateral re-entry system to lateral
- Junction can be completed and isolated with level 5 MSCS® multi-string completion system
- Compatible with all SmartWell™ designs

Multilateral Services *Specifications*

RMLS™ Retrievable Multilateral System LatchMaster™ Pre-milled Window Systems



Typical Installation Sequence

- Install mainbore casing/liner with window joint and cement in place.
- Run in hole and pull inner isolation sleeve.
- Drill and line mainbore sections as required (optional).
- Run in hole and set drilling whipstock.
- Drill lateral as required.
- Run in hole lateral liner and cement as required.
- Washover lateral liner top to re-open mainbore and retrieve whipstock.
- Install completion and flow well.

RMLS™ System Specifications				
TAML Level 2, 3, 4, or 5				
System casing size	5-1/2 in. 139.7 mm	7 in. 177.8 mm	7-5/8 in. 193.7 mm	9-5/8 in. 244.5 mm
Casing weight	14-15.5 lb/ft	26-29 lb/ft	33-39 lb/ft	43-47 lb/ft
Window type	Pre-milled			
Lateral liner type	None, drop liner, washed over transition joint			
Lateral hole size	4-3/4 in. 120.6 mm	6 in. 152.4 mm	6-3/4 in. 171.4 mm	8-1/2 in. 215.9 mm
Lateral liner size	3-1/2 in. 88.9 mm	4-1/2 in. 114.3 mm	5-1/2 in. 139.7 mm	6 in. 152.4 mm
Lower mainbore access	Full gauge 4.825 in.	Full gauge 6.059 in.	Full gauge 6.500 in.	Full gauge 8.525 in.

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DRILLING SERVICES

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